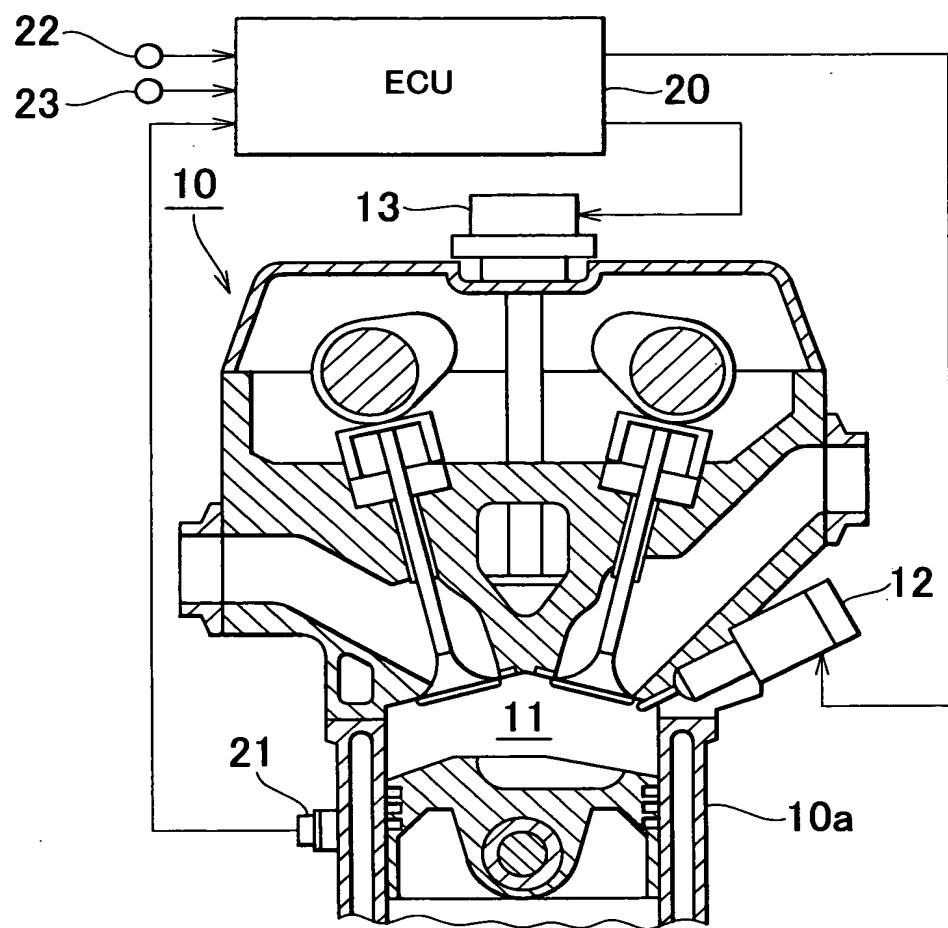
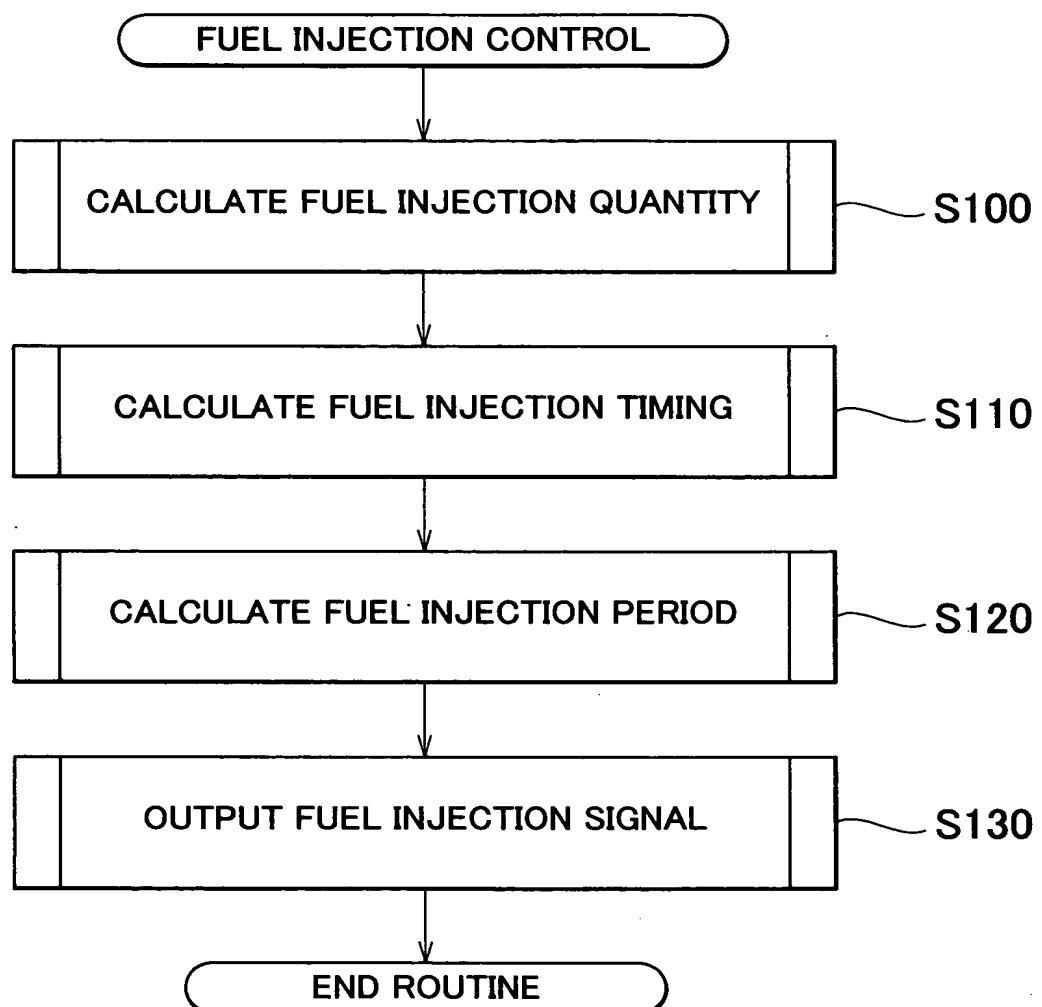


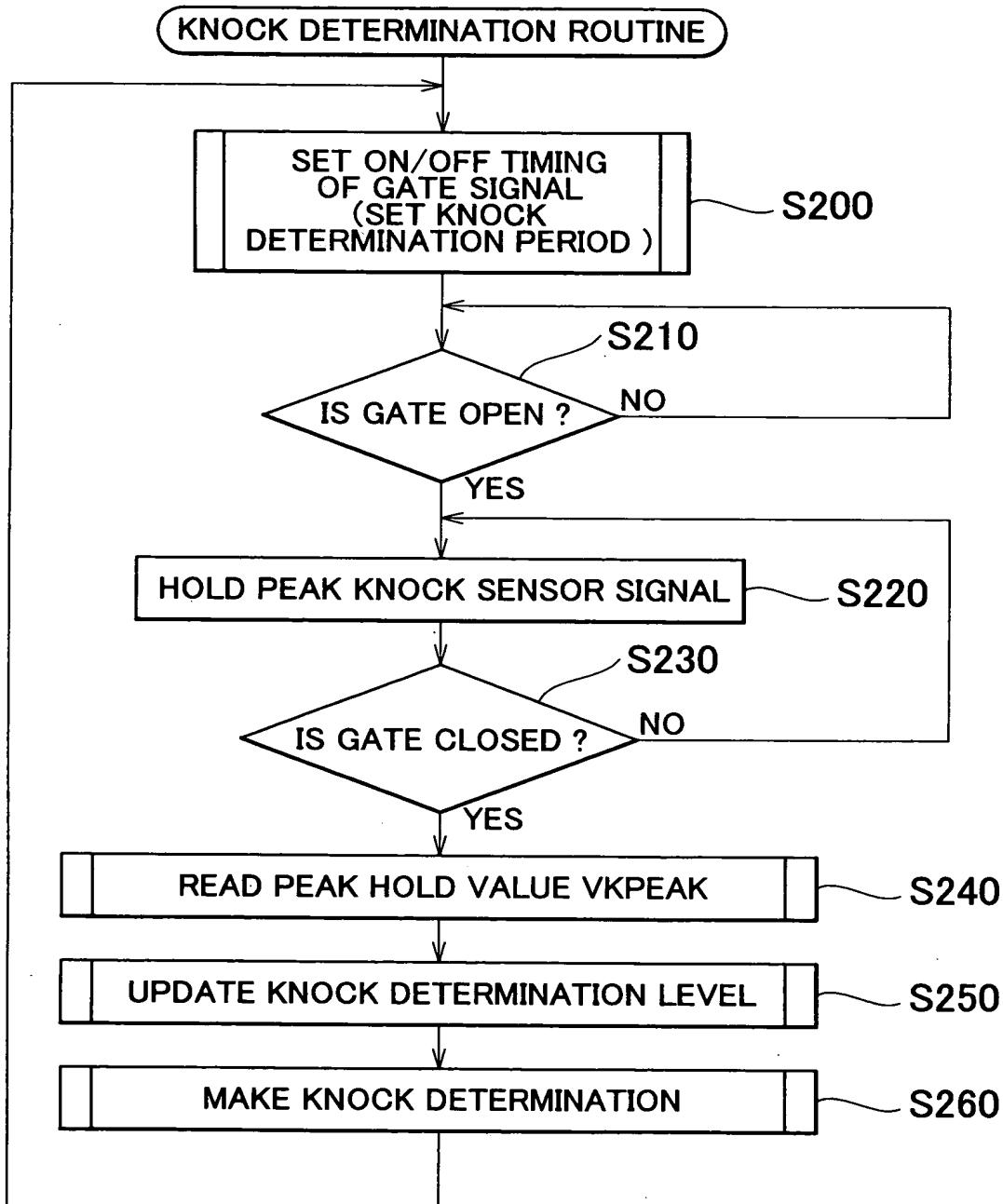
**F I G . 1**



# FIG. 2



F I G . 3



**FIG . 4A**

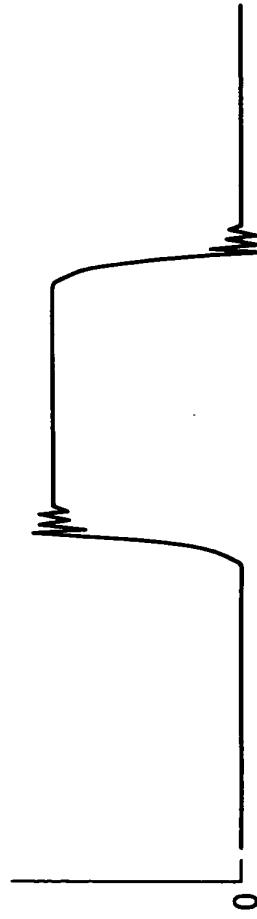
FUEL  
INJECTION  
SIGNAL

ON  
OFF



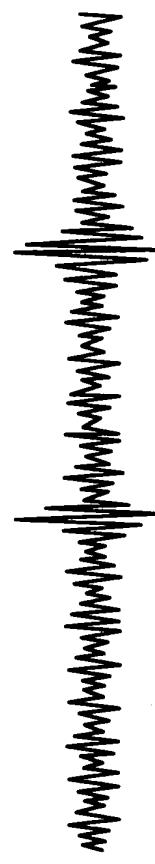
**FIG . 4B**

NEEDLE  
VALVE LIFT



**FIG . 4C**

KNOCK SENSOR  
SIGNAL



LOW BACKGROUND NOISE LEVEL

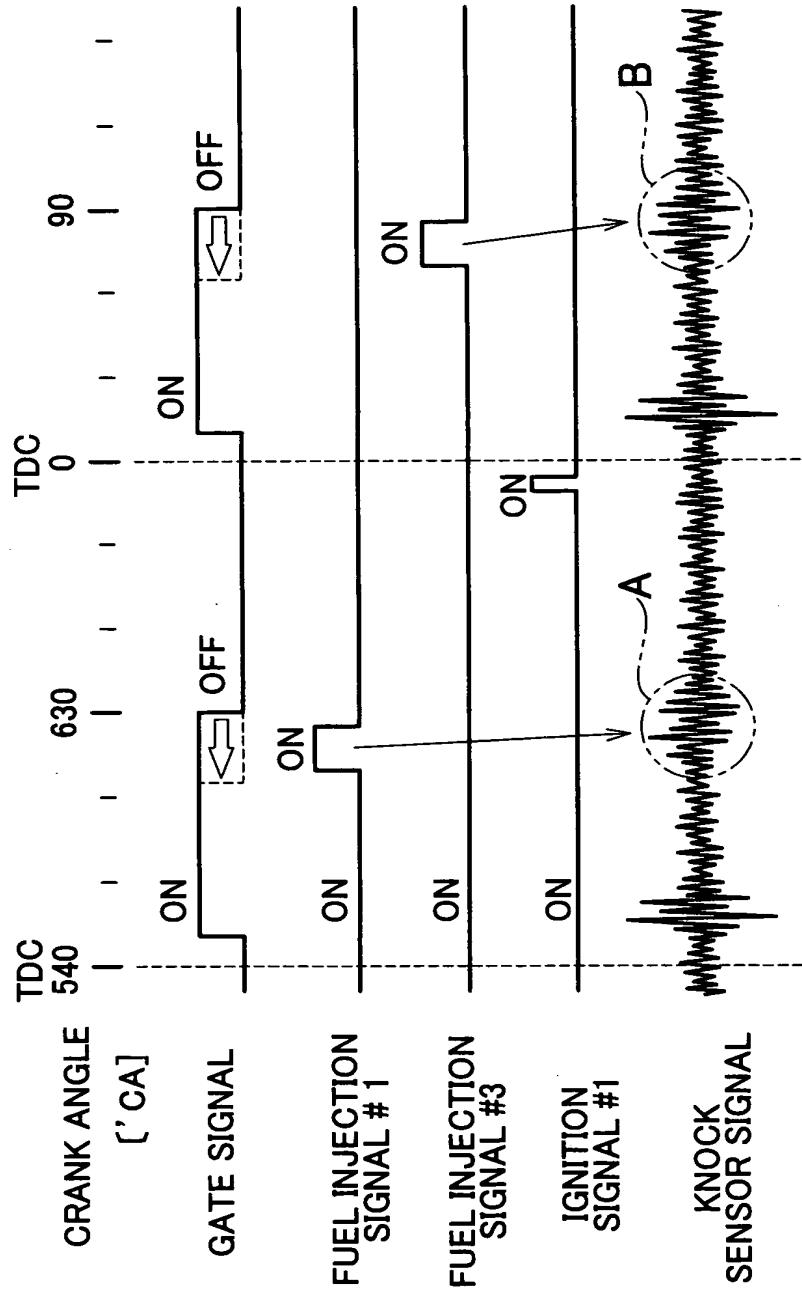
**FIG . 4D**

KNOCK SENSOR  
SIGNAL

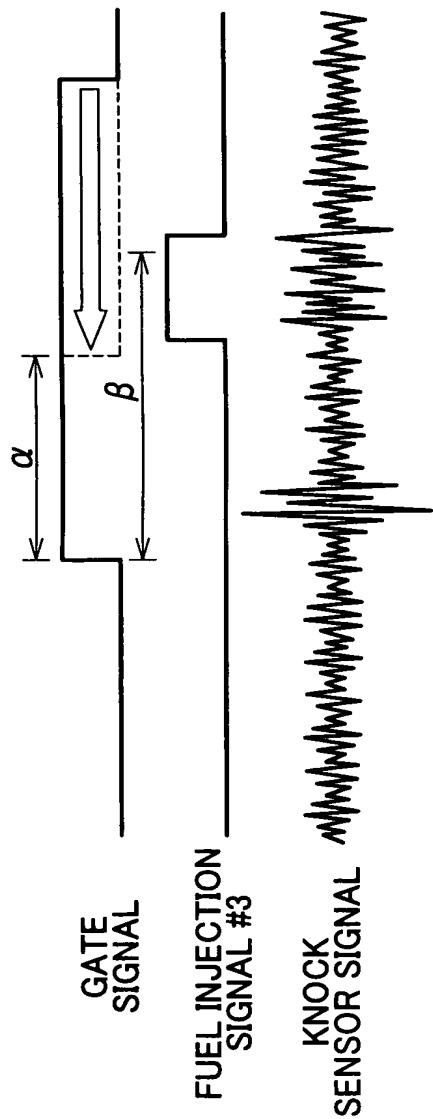


HIGH BACKGROUND NOISE LEVEL

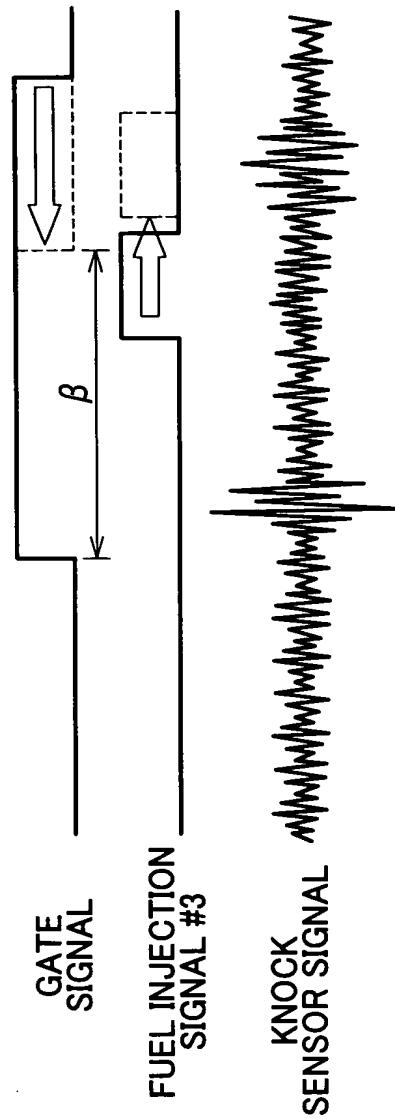
**FIG . 5**



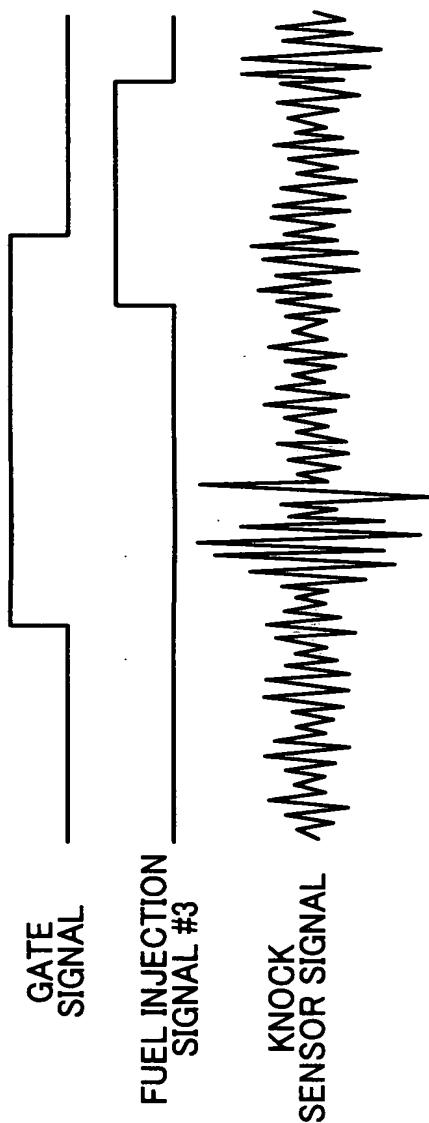
**FIG . 6A**



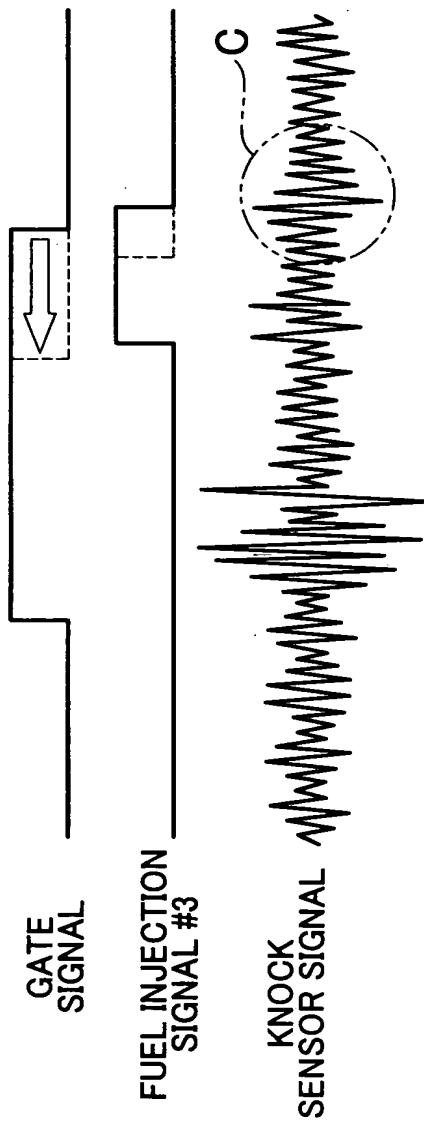
**FIG . 6B**



**FIG . 7**



**FIG . 8**



F I G . 9

